

Appendix B

HMPTS Hazard/Assurance Prioritization System

1.0 Overview

This appendix defines the system for prioritizing or grading all HMPTS activities in terms of severity of the hazards involved in executing those activities. The severity of a problem/issue is a function of the negative consequences that may result if an appropriate level of management/-assurance controls are not defined to prevent these negative consequences. The contents of this appendix will be updated based on the DOE Safety & Health Plan Development Manual, Section III (The DOE S&H Risk-Based Priority Model) when it is formally issued).

2.0 Hazard/Assurance Categories and Levels

Six types of assurance categories are defined below, with each category being further subdivided into levels which define the consequences of failure of a system, component, or activity.

2.1 Category 1 — Off-Site Public Health and Safety

- Loss of life or impairment.
- Major exposure and/or injury.
- Moderate exposure and/or injury.
- Minor exposure and/or injury.

2.2 Category 2 — Environmental Protection

- Noncompliance with Federal, State, and Local environmental laws.
- Significant noncompliance with DOE Orders that could result in major damage to the ecological system.
- Significant deviation from LLNL policies that could result in moderate to minor damage to the ecological system.
- Issues which could cause major public protest or outcry (other than the incidents defined above).

2.3 Category 3 — Site Personnel Safety

- Loss of life/immediate impairment.
- Major injury requiring hospitalization with significant lost work time and/or exposure > 100% over occupational limits.

- Moderate injury requiring medical treatment at the LLNL Medical Center with a minor loss of work time and/or exposure of 20% over the occupational limits.
- Minor injury requiring first aid at the scene of the accident with no lost work time and/or exposure of up to 20% over the occupational limits.

2.4 Category 4 — Regulatory Compliance/External Confidence

- Noncompliance with Federal, State, and Local laws.
- Significant noncompliance with DOE Orders that could result in one of the incidents defined above.
- Issues which could cause major public protest or outcry (other than the incidents defined above).
- Significant deviation from LLNL policies that has or could result in one of the incidents defined above.

2.5 Category 5 — Performance Objectives and/or Property Concerns

- Critical negative impact on HMPTS mission which results in > 180 days interruption in a project or a loss of property of > 10 million dollars.
- Major negative impact on HMPTS mission which results in between 30 and 180 days of interruption in a project or a loss of property of between 1 and 10 million dollars.
- Moderate negative impact on HMPTS mission which results in between 7 and 30 days of interruption in a project or a loss of property of between 500 thousand and 1 million dollars.
- Minor negative impact on HMPTS mission which results in between 1 and 7 days of interruption in a project or a loss of property of between 100 and 500 thousand dollars.

2.6 Category 6 — Good Management Practices

Procedural noncompliance with DOE Orders or LLNL policies that has little or no ES&H significance, has little or no impact on the project mission, or is not described above